

MEDICAL MATERIAL AND MEDICAL INSTRUMENT

Patent number: JP2119867
Publication date: 1990-05-07
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Classification:
- International: A61L33/00
- european:
Application number: JP19890173188 19890705
Priority number(s):

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Abstract of JP2119867

PURPOSE: To obtain a material excellent in thrombosis resistance by introducing a functional group enabling heparin to be connected through two or more coupling agents and fixing the heparin to a base material surface.

CONSTITUTION: A base material is sometimes properly used in accordance with use, but polypropylene, polyurethane, polyvinyl chloride, etc., are generally used as the base material. In order to introduce a functional group to these base materials, ozone oxidation is utilized. That is, an ozone process is only required to bring O3/O2 gas, oxidized by an ozone generator, into contact with the base material. Thus because the functional group can be directly introduced to an elastic material of polyurethane or the like, heparin can be easily connected with no exfoliation or the like of a polymer surface. However, when the fellow functional group, connected with the heparin, is a functional group such as an aldehyde group not sufficiently fixed only by an amino group originally provided in the heparin, it is especially necessary to perform desulfuration oxidation in one part of N-sulfate of the heparin.

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